

program developer.

CONSTITUTION: An image processor consists of a control part 1 which controls the entire image processor, a data flow control part 2, a computing part 3 which has plural operational processors, a program buffer 4 and an input/output part 5. Then a host computer 10 is added to point a *variable* to be *traced* in a source program that performs the image processing and secures the correspondence between the *compiling* of the source program and the source program corresponding to the *debug* data stored in the part 2.

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TRACING DEVICE

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ABSTRACT

PURPOSE: To efficiently identify a local *variable* with a small quantity of *debugging* information when an object program obtained by *compiling* a source program *traces* the execution of a program to be an object program using a stack pointer as a base pointer for a local *variable* in the source program.

CONSTITUTION: This *tracing* device is provided with an up/down counter 7 whose contents are increased by a signal *CALL/*TNT signal indicating the calling a sub-routine or an interruption routine and decreased by a signal *RET/*IRET signal indicating restoration from the sub-routine or the interruption routine. When an output from the counter 7 is inputted to an address terminal, a base pointer writing memory 9 saves a stack pointer value in the address storing place of the address terminal as a base pointer value at the time of calling the sub-routine or the interruption routine, and at the time of restoring from the sub-routine or the interruption routine, restores the saved value. An output from the memory 9 is written in a *trace* memory 2.

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METHOD FOR *DEBUGGING* PROGRAM

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